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12. Teaches a new way, of using a Telescope for drawing in proportion all the new Appearances in the Heavens; for measuring the Bodies of the Planets, and of the Fixt Stars themselves and their distances, in such parts, that a *Line* (the twelfth part of an inch) shall contain a 1000 of them; an inch (the twelfth part of a foot) 12000, and a foot, 144000: Besides, a very easie and certain way of making all these parts (though very small) perceptible to the bare Eye.

So far of the *first* Head of this *Third* Part.

The *other* Head is the *Mechanical*, shewing the several ways of Forming and Polishing all sorts of Glasses, that serve for Telescopes; which is done in *six* Sections.

1. Rectifies the *Common* way of forming Glasses Spherically, and all the Moulds, in which the Vulgar Artifts are wont to work them.

2. Teaches a way of excellently forming and polishing such Glasses by hand, without any Engin.

3. Teaches a way of working Glasses by the hand guided by a simple Engin.

4. Treats of the working of Glasses by Instruments and Engins, regulating and directing the hand.

5. Teaches a New way of working Spherical Concave Eye-glasses, to serve Telescopes of the first kind, above-mentioned.

6. Teaches a New way of working all sorts of Spherical Glasses, Convex and Concave, for Telescopes, very universally, speedily, with ease, and in a small room; even for the longest Tubes.

All which the Author concludeth with a Direction for a way of making Tubes that may serve to fit up Telescopical Glasses.

E R R A T A.

In Numb. 74. p. 2221. l. 25. *r.* is by Bruerus described to Musset.
In this Numb. 78. p. 3023. l. 22. *r.* predicted, for practised. p. 3029. l. 16. & *unum.* *ibid.* l. 25.
r. spectarentur.

L O N D O N,

Printed for John Martyn, Printer to the Royal Society. 1671.